

ATTENTION!

**PUBLIC COMMENT PERIOD AND PUBLIC HEARING:**

The Midland County Solid Waste Management Plan Amendment that is authorized under Act 451, Part 115 of the Michigan Environmental Protection Act, 1994 will be released for public review and comment. The release of the draft amendment is the first task in the approval of the plan. The draft amendment would allow limited amounts of non-hazardous river sediment and floodplain soils to be hauled from Saginaw County for disposal in the City of Midland Landfill.

A 90-day public comments period for the DRAFT Solid Waste Management Plan Amendment will be held from Wednesday July 15th through Tuesday October 20th. The draft plan can be reviewed at the City of Midland website at [cityofmidlandmi.gov](http://cityofmidlandmi.gov), and at the City of Midland Landfill located at 4311 E. Ashman Street, Midland, MI 48642. The City of Midland Landfill hours for plan review are 8 a.m. to 4:00 p.m. Comments may be made in person or by mail, telephone, facsimile, or e-mail. A public hearing for the plan is scheduled for:

Tuesday October 20th 2015 at 9:00 a.m.

Board of Commissioners

220 West Ellsworth

Midland MI.48640

The hearing complies with the intent of the Michigan Environmental Protection Act, 1994. The Midland County Solid Waste Planning Committee will provide services to individuals with disabilities upon request. Individuals with disabilities requiring auxiliary aids and services should contact the Committee by writing or calling the address listed below.

After the comment period, the Solid Waste Management Planning Committee will make any necessary changes based on comments received, either in writing or at the public hearing. All written comments should be submitted in writing to:

Midland County Solid Waste Management Planning Committee

ATTN: Scott O'Laughlin

4311 E. Ashman Street

Midland, MI 48642

Phone: (989) 837-6989

Facsimile: (989) 837-**5722**

Email: [solaughl@midland-mi.org](mailto:solaughl@midland-mi.org)

# Memo

To: Midland County Solid Waste Plan Committee

From: Scott O'Laughlin

Date: June 10, 2015

Re: Plan Update Summary

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Ladies and Gentlemen,

The summary below details the proposed revisions to the Midland County Solid Waste Plan in the attached pages.

Page ii	Change Date to 2015
Page I-2	Insert text allowing "specially approved" situations; reference "river sediment/floodplain cleanup contaminated soils"
Page I-3	Insert text allowing "specially approved" situations; correct page number
Page II-3	Insert text referencing "contaminated river sediment/floodplain cleanup soils"
Page III-2	Insert text allowing "specially approved" situations; correct page number
Page III-3	Insert line allowing import to Midland from Saginaw up to 622 tons daily, 227,000 tons annually, of contaminated soil – river sediment and floodplain soils
Page III-8	Insert text referencing "contaminated river sediment/floodplain cleanup soils"
Page A-12	Insert text allowing "specially approved" situations; edit text from "classified as Type II wastes" to "acceptable at a Type II landfill"
Page D-13	Insert text allowing "specially approved" situations; edit text from "classified as Type II wastes" to "acceptable at a Type II landfill"

Respectfully Submitted,

  
Scott O'Laughlin

Landfill Superintendent

## EXECUTIVE SUMMARY

Midland County has a population of 81,713, of which approximately half is located within the City of Midland. The county is primarily rural with the exception of the City of Midland. The population of the City of Midland is expected to grow 6.5% in the next ten years, while the overall ten year county growth rate is expected to be slightly higher at 7.3%.

Midland County's solid waste system is comprised of one municipal solid waste landfill, two hazardous waste landfills, two licensed transfer stations in Lincoln and Lee Township, and various recycling services including drop-off centers and curb-side collection.

Midland County is currently a "closed" county, meaning waste generated within Midland County must be disposed of within Midland County. In addition, waste from counties outside of Midland cannot be disposed of within Midland County. Only in emergency or specially approved situations will waste be allowed to be transferred across county lines. In addition, the amended plan allows for the transfer of special waste (foundry sand as daily cover, or river sediment/floodplain cleanup contaminated soils) between the counties of Midland, Bay, and Saginaw and the City of Midland Landfill.

The municipal solid waste landfill is owned and operated by the City of Midland. This landfill accepts approximately 170,000 compacted cubic yards of municipal solid waste (approximately 500,000 loose cubic yards per year). The City of Midland Landfill is situated on 330 acres and has capacity for a minimum of five additional cells. The estimated additional life of this landfill is 50 to 70 years dependent upon future source reduction and recycling practices.

The two hazardous waste landfills are owned and operated by Dow Chemical Company and Dow Corning Corporation for private use. All wastes of residential non-hazardous nature, that are not recycled, generated by these two corporations are currently or will be in the near future transported to the City of Midland Landfill for disposal. The Dow Chemical Company also owns and operates two incinerators for disposal purposes.

The City of Midland operates the collection system for residential waste generated by city residents. The townships contract out their collection systems to various haulers. Lee and Lincoln Townships each have licensed transfer stations. Each township currently contracts with the City of Midland Landfill for final disposal of waste.

Midland County also has a comprehensive recycling system. The City of Midland contracts with Waste Management for curbside collection of recyclables. The townships utilize both curbside collection and drop-off programs. Additionally, within the City of Midland, the Midland Volunteers for Recycling and Brady News and Recycling operate drop-off facilities for both residential and commercial recyclables. The Arnold Center, located in the City of Midland, also processes a large amount of recyclable materials for many local companies. In addition, both Dow Chemical Company and Dow Corning Corporation practice comprehensive recycling efforts, with Dow Corning diverting over 16,000 cubic yards of materials from landfill disposal.

The City of Midland also owns and operates a compost operation at the landfill site. This facility currently accepts approximately 75,000 yards of cubic yard waste, brush and leaves. Also, within the City of Midland, PUTT, Inc., a private company, completes large-scale process of wood waste and operates a small composting facility. They also produce approximately 200 yards of compost each year using yard clippings and leaf wastes. Additionally, Pat's Gradall, another locally privately owned company produces up to 2,000 yards of compost per year.

Lastly, the County and City of Midland recycles 100% of the asphalt wastes in roadway reconstruction projects. This amounts to approximately 37,000 tons of asphalt being recycled per year.

## CONCLUSIONS AND SELECTED ALTERNATIVE

The City of Midland Landfill has an approved expansion for the construction of five additional cells beyond Cell 14, which is currently being filled. This expansion provides Midland County with at least fifty years of capacity using current projected waste generation rates. Additionally, as Midland County proceeds toward the State of Michigan's goal of 35% recycling, the capacity could increase to seventy-five years. Therefore, Midland County has sufficient landfill capacity, and the need to investigate further landfill areas is not required.

Likewise, the waste transportation systems currently utilized within Midland County appear to be sufficient. The City of Midland provides residential curbside service within the city limits, and the private sector handles pickup of commercial waste in the city and county and residential waste outside of the city. This allows each township and business owner the autonomy to choose the vendor, schedule, and methodology by which their solid waste will be handled.

Midland County has four household hazardous waste collections per year. This continues to be a popular service, with many requests for expanded service during the winter months. The program is hosted jointly by Midland County and Dow Chemical Company. The co-supporters will evaluate expansion of this program, and if warranted and economically feasible, the program may be expanded. However, if expanded, additional funding sources will need to be identified.

Midland County will also continue utilizing both curbside and drop-off recycling programs. Expansion in this area will be evaluated economically based both on cost to residents and market value for the recyclable materials. Education along with encouragement to both recycle and buy recycled will continue to be a high priority for all parties.

The City of Midland will continue its composting program including an expansion scheduled for summer of 2000. Putt, Inc. will also be used to process the large volume wood wastes and yard waste composting. Future developments may include the marketing of compost and the evaluation and use of a variety of compost feedstock including bio-solids, agricultural waste products, etc.

Midland County is currently a "closed" county, meaning waste generated within Midland County must be disposed of within Midland County. In addition, waste from counties outside of Midland cannot be disposed of within Midland County. This plan supports the continuation of such policies with the exception of a reciprocal agreement allowing for the transfer of foundry sand (special waste) between the counties of Midland, Bay, and Saginaw. This plan also allows for waste to cross county line in emergency or specialty approved situations as explained in the Import/Export section on pages III-3,5 and in the Coordination section on A-12.

In conclusion, it was determined that Midland County's Solid Waste system currently meets the needs of the residents and businesses located in the county. Therefore, it was determined that Midland County should proceed as currently operating, while continuing to evaluate new technologies and expansion of recycling, household hazardous waste collection, and composting programs. Additionally, alliances will be maintained with neighboring counties to allow for transport of waste between counties in emergency situations.

**DATA BASE**

Inventory and description of all solid waste disposal areas within the County or to be utilized by the County to meet its disposal needs for the planning period.

**DATA BASE**FACILITY DESCRIPTIONS

Facility Type: Type II

Facility Name: City of Midland Landfill

County: Midland Location: Town: 14N Range: 2E Section(s): 12

Map identifying location included in Attachment Section: X Yes ☐ No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes:

X Public ☐ Private Owner:

## Operating Status (check)

X open  
☐ closed  
 X licensed  
☐ unlicensed  
☐ construction permit  
☐ open, but closure  
☐ pending

## Waste Types Received (check all that apply)

X residential  
 X commercial  
 X industrial  
 X construction & demolition  
 X contaminated soils  
 X special wastes \*  
☐ other:

\* Explanation of special wastes, including a specific list and/or conditions:

Tires, Appliances (Remove Freon and Recycle Scrap Iron), Yard Waste (Compost Program), Asbestos, Non-Biohazard Medical Waste, Pit Sludges and Grit, Recycle Scrap Metals, Wastewater and Water Treatment Sludges, Contaminated River Sediment and Floodplain Soils

Site Size:

Total area of facility property: 330 acres

Total area sited for use: 265 acres

Total area permitted: 265 acres

Operating: 20.5 acres

Not excavated: 49.0 acres

Current capacity: 8.5 million compacted yds<sup>3</sup>

Estimated lifetime: 50 years

Estimated days open per year: 276 days

Estimated yearly disposal volume: 125,925 compacted yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

### SELECTED SYSTEM

Midland County is currently a "closed" county, meaning waste generated within Midland County must be disposed of within Midland County. In addition, waste from counties outside of Midland cannot be disposed of within Midland County. This plan supports the continuation of such policies with the exception of a reciprocal agreement allowing for the transfer of foundry sand (special waste) between the counties of Midland, Bay, and Saginaw. This plan also allows for waste to cross county line in emergency or specially approved situations as explained in the Import/Export section on pages III-3,5 and in the Coordination section on A-12.

It is also recommended that an alliance be formed between governmental units, environmental interest groups, business leaders, etc. whose focus will be on increasing recycling and environmental awareness and encouragement of both recycling wastes and procuring products that have been manufactured using recycled materials.

In conclusion, it was determined that Midland County's Solid Waste system currently meets the needs of the residents and businesses located in the county. Therefore, it was determined that Midland County should proceed as currently operating, while continuing to evaluate new technologies and expansion of recycling, household hazardous waste collection, and composting programs. Additionally, alliances will be maintained with neighboring counties to accept waste in emergency situations.

REVISED

# SELECTED SYSTEM

## IMPORT AUTHORIZATION

If a Licensed solid waste disposal area is currently operating within the County, disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the CONDITIONS AUTHORIZED in Table 1-A.

Table 1-A

### CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
<u>Midland</u>	<u>Saginaw</u>		522 tons	227,000 tons	* -
<u>Midland</u>	<u>Bay</u>				* -
<u>Midland</u>	<u>Saginaw</u>				Contaminated Soil - River
<u>Midland</u>	<u>Shiawassee</u>				Sediment and Floodplain Soils
<u>Midland</u>	<u>Clare</u>				* -
<u>Midland</u>	<u>Bay</u>		2,000 yards/month	24,000 yards	* -
					Foundry Sand -
					Special Waste Only
<u>Midland</u>	<u>Saginaw</u>		5,000 yards/month	60,000 yards	Foundry Sand -
					Special Waste Only

If a new solid waste disposal area is constructed and operating in the future in the County, then disposal of solid waste generated by the

<sup>1</sup> Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.  
<sup>2</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.



SELECTED SYSTEM

REVISED

FACILITY DESCRIPTIONS

Facility Type: Type II

Facility Name: City of Midland Landfill

County: Midland Location: Town: 14N Range: 2E Section(s): 12

Map identifying location included in Attachment Section: X Yes ☐ No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes:

X Public ☐ Private Owner:

Operating Status (check)		Waste Types Received (check all that apply)	
<input checked="" type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
<input type="checkbox"/>	closed	<input checked="" type="checkbox"/>	commercial
<input checked="" type="checkbox"/>	licensed	<input checked="" type="checkbox"/>	industrial
<input type="checkbox"/>	unlicensed	<input checked="" type="checkbox"/>	construction & demolition
<input type="checkbox"/>	construction permit	<input checked="" type="checkbox"/>	contaminated soils
<input type="checkbox"/>	open, but closure pending	<input checked="" type="checkbox"/>	special wastes *
		<input type="checkbox"/>	other:

\* Explanation of special wastes, including a specific list and/or conditions:

Tires, Appliances (Remove Freon and Recycle Scrap Iron), Yard Waste (Compost Program), Asbestos, Non-Biohazard Medical Waste, Pit Sludges and Grit, Recycle Scrap Metals, Wastewater and Water Treatment Sludges, Contaminated River Sediment and Floodplain Soils

Site Size:

Total area of facility property: 330 acres

Total area sited for use: 265 acres

Total area permitted: 265 acres

Operating: 20.5 acres

Not excavated: 49.0 acres

Current capacity: 8.5 million compacted yds<sup>3</sup>

Estimated lifetime: 50 years

Estimated days open per year: 276 days

Estimated yearly disposal volume: 125,925 compacted yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawatts

Waste-to-energy incinerators: N/A megawatts

**COORDINATION EFFORTS:**

Solid Waste Management Plans need to be developed and implemented with due regard for both local conditions and the state and federal regulatory framework for protecting public health and the quality of the air, water, and land. The following states the ways in which coordination will be achieved to minimize potential conflicts with other programs and, if possible, to enhance those programs.

It may be necessary to enter into various types of agreements between public and private sectors to be able to implement the various components of this solid waste management system. The known existing arrangements are described below which are considered necessary to successfully implement this system within the County. In addition, proposed arrangements are recommended which address any discrepancies that the existing arrangements may have created or overlooked. Since arrangements may exist between two or more private parties that are not public knowledge, this section may not be comprehensive of all the arrangements within the County. Additionally, it may be necessary to cancel or enter into new or revised arrangements as conditions change during the planning period. The entities responsible for developing, approving, and enforcing these arrangements are also noted.

The City of Midland will continue to negotiate contractual agreements with the townships of Midland County for the use of the City of Midland Landfill. Additionally, the City of Midland Landfill will continue to work closely with the Department of Environmental Quality to maintain regulatory compliance and pursue future environmentally conscience endeavors.

As stated earlier, Midland County shall utilize import/export authorizations in emergency or specially approved situations only. Emergency situations are only those instances in which, a counties landfills are closed or cannot handle increased landfill volumes due to regulatory closure, natural disasters such as floods, tornadoes, fires, and other acts of God.

To use these facilities on an emergency, short-term basis, Midland County will sign letters of agreement with those counties calling for reciprocal agreements. These agreements would specify that Midland County will be able to use licensed landfills in Bay, Saginaw, Shiawassee, or Clare county on an interim basis in the event of a temporary or permanent closure of the City of Midland Landfill and that those same counties would be able to use the City of Midland landfill on a temporary basis if the same conditions occurred in their jurisdiction. Such agreements would require the approval and concurrence of the City of Midland and consequently a resolution or letter of agreement between the city and county would be established. Similar agreements would be required with the owners of the landfills that are located in these surrounding counties. At the same time, the county would require all private haulers operating within the county to abide by these inter-county agreements for the transfer of wastes to the designated landfill. Such agreements could be put together in the form of a contract or a formal letter of agreement.<sup>3</sup>

This contingency plan is to remain in effect until the capacities of the designated landfills in any of the participating counties reach a point that precludes the importation of out-of-county wastes. Midland County would limit the deposition of out-of-county wastes in Midland County to a maximum contiguous period of nine months. In addition, Midland County would accept only those wastes, which must be limited to those acceptable at a Type II landfill, and are generated within the importing county.<sup>3</sup>

Additionally, for those counties not having facilities available or willing to take special wastes such as asbestos and contaminated soils, the waste hauler shall petition, in writing, the City of Midland City Manager for acceptance to dispose of such waste at the City of Midland Landfill. Quantities, type of waste, test results, and proper contaminated procedures must be listed on the petition. The City Manager will determine and have final approval if such waste can be disposed of at the City of Midland Landfill. All out-county waste will be charged per an out-county fee schedule maintained by the City of Midland Council. All special waste shall be documented and filed with the Saginaw Bay District of the Department of Environmental Quality.

## ATTACHMENTS

Special Conditions

Special conditions affecting import or export of solid waste.

The City of Midland will continue to negotiate contractual agreements with the townships of Midland County for the use of the City of Midland Landfill. Additionally, the City of Midland Landfill will continue to work closely with the Department of Environmental Quality to maintain regulatory compliance and pursue future environmentally conscience endeavors.

As stated earlier, Midland County shall utilize import/export authorizations in emergency or specially approved situations only.

To use these facilities on an emergency, short-term basis such as floods, tornados, fire, and other natural disasters or in the event that a landfill is temporarily or permanently closed due to regulatory issues, Midland County will sign letters of agreement with those counties calling for reciprocal agreements. These agreements would specify that Midland County will be able to use licensed landfills in Bay, Saginaw, Shiawassee, or Clare County on an interim basis in the event of a temporary or permanent closure of the City of Midland Landfill or an increase of flows above and beyond capacity due to a natural disaster, and that those same counties would be able to use the City of Midland landfill on a temporary basis if the same conditions occurred in their jurisdiction. Such agreements would require the approval and concurrence of the City of Midland and consequently a resolution or letter of agreement between the City and County would be established. Similar agreements would be required with the owners of the landfills that are located in these surrounding counties. At the same time, the county would require all private haulers operating within the county to abide by these inter-county agreements for the transfer of wastes to the designated landfill. Such agreements could be put together in the form of a contract or a formal letter of agreement.<sup>3</sup>

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## Information Sources

1. Midland County Road Commission, Telephone Interview, 7/27/99 - 3:00 pm. - Depac Gupta
2. City of Midland Engineering Department, E-mail message, 7/29/1999 - 10:10 am. - Dave Foote.
3. Midland County Solid Waste Management Plan - 1988.

# CURRENT

## EXECUTIVE SUMMARY

Midland County has a population of 81,713, of which approximately half is located within the City of Midland. The county is primarily rural with the exception of the City of Midland. The population of the City of Midland is expected to grow 6.5% in the next ten years, while the overall ten year county growth rate is expected to be slightly higher at 7.3%.

Midland County's solid waste system is comprised of one municipal solid waste landfill, two hazardous waste landfills, two licensed transfer stations in Lincoln and Lee Township, and various recycling services including drop-off centers and curb-side collection.

Midland County is currently a "closed" county, meaning waste generated within Midland County must be disposed of within Midland County. In addition, waste from counties outside of Midland cannot be disposed of within Midland County. Only in emergency situations will waste be allowed to be transferred across county lines. In addition, the new plan allows for the transfer of special waste, foundry sands only, between the counties of Midland, Bay, and Saginaw for use as daily cover at the City of Midland Landfill.

The municipal solid waste landfill is owned and operated by the City of Midland. This landfill accepts approximately 170,000 compacted cubic yards of municipal solid waste (approximately 500,000 loose cubic yards per year). The City of Midland Landfill is situated on 330 acres and has capacity for a minimum of five additional cells. The estimated additional life of this landfill is 50 to 70 years dependent upon future source reduction and recycling practices.

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## CONCLUSIONS AND SELECTED ALTERNATIVE

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Likewise, the waste transportation systems currently utilized within Midland County appear to be sufficient. The City of Midland provides residential curbside service within the city limits, and the private sector handles pickup of commercial waste in the city and county and residential waste outside of the city. This allows each township and business owner the autonomy to choose the vendor, schedule, and methodology by which their solid waste will be handled.

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Midland County will also continue utilizing both curbside and drop-off recycling programs. Expansion in this area will be evaluated economically based both on cost to residents and market value for the recyclable materials. Education along with encouragement to both recycle and buy recycled will continue to be a high priority for all parties.

The City of Midland will continue its composting program including an expansion scheduled for summer of 2000. Putt, Inc. will also be used to process the large volume wood wastes and yard waste composting. Future developments may include the marketing of compost and the evaluation and use of a variety of compost feedstock including bio-solids, agricultural waste products, etc.

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In conclusion, it was determined that Midland County's Solid Waste system currently meets the needs of the residents and businesses located in the county. Therefore, it was determined that Midland County should proceed as currently operating, while continuing to evaluate new technologies and expansion of recycling, household hazardous waste collection, and composting programs. Additionally, alliances will be maintained with neighboring counties to allow for transport of waste between counties in emergency situations.

# CURRENT

## DATA BASE

Below is an inventory and description of all solid waste disposal areas within the County or to be utilized by the County to meet its disposal needs for the planning period.

### FACILITY DESCRIPTIONS

Facility Type: Type II

Facility Name: City of Midland Landfill

County: Midland Location: Town: 14N Range: 2E Section(s): 12

Map identifying location included in Attachment Section: ☒ Yes ☐ No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes:

☒ Public ☐ Private Owner:

#### Operating Status (check)

- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

#### Waste Types Received (check all that apply)

- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes \*
- ☐ other:

\* Explanation of special wastes, including a specific list and/or conditions:

Tires, Appliances (Remove Freon and Recycle Scrap Iron), Yard Waste (Compost Program), Asbestos, Non-Biohazard Medical Waste, Pit Sludges and Grit, Recycle Scrap Metals, Wastewater and Water Treatment Sludges

#### Site Size:

Total area of facility property: 330 acres  
Total area sited for use: 265 acres  
Total area permitted: 265 acres  
Operating: 20.5 acres  
Not excavated: 49.0 acres

Current capacity: 8.5 million compacted yds<sup>3</sup>  
Estimated lifetime: 50 years  
Estimated days open per year: 276 days  
Estimated yearly disposal volume: 125,925 compacted yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects:

Waste-to-energy incinerators:

N/A megawatts

N/A megawatts

### Section III

Midland County is currently a "closed" county, meaning waste generated within Midland County must be disposed of within Midland County. In addition, waste from counties outside of Midland cannot be disposed of within Midland County. This plan supports the continuation of such policies with the exception of a reciprocal agreement allowing for the transfer of foundry sand (special waste) between the counties of Midland, Bay, and Saginaw. This plan also allows for waste to cross county line in emergency situations as explained in the Import/Export section on pages III-3,5 and in the Coordination section on A-14.

It is also recommended that an alliance be formed between governmental units, environmental interest groups, business leaders, etc. whose focus will be on increasing recycling and environmental awareness and encouragement of both recycling wastes and procuring products that have been manufactured using recycled materials.

In conclusion, it was determined that Midland County's Solid Waste system currently meets the needs of the residents and businesses located in the county. Therefore, it was determined that Midland County should proceed as currently operating, while continuing to evaluate new technologies and expansion of recycling, household hazardous waste collection, and composting programs. Additionally, alliances will be maintained with neighboring counties to accept waste in emergency situations.

## SELECTED SYSTEM

## IMPORT AUTHORIZATION

If a Licensed solid waste disposal area is currently operating within the County, disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the CONDITIONS AUTHORIZED in Table 1-A.

Table 1-A

## CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
Midland	Bay				*
Midland	Saginaw				*
Midland	Shiawassee				*
Midland	Clare				*
Midland	Bay		2,000 yards/month	24,000 yards	Foundry Sand -
					Special Waste Only
Midland	Saginaw		5,000 yards/month	60,000 yards	Foundry Sand -
					Special Waste Only

If a new solid waste disposal area is constructed and operating in the future in the County, then disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the AUTHORIZED CONDITIONS in Table 1-B.

<sup>1</sup> Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

<sup>2</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.



## SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II

Facility Name: City of Midland Landfill

County: Midland Location: Town: 14N Range: 2E Section(s): 12Map identifying location included in Attachment Section: ☒ Yes ☐ No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes:

X Public ☐ Private Owner:

## Operating Status (check)

☒ open  
☐ closed  
☒ licensed  
☐ unlicensed  
☐ construction permit  
☐ open, but closure  
☐ pending

## Waste Types Received (check all that apply)

☒ residential  
☒ commercial  
☒ industrial  
☒ construction & demolition  
☒ contaminated soils  
☒ special wastes \*  
☐ other:

\* Explanation of special wastes, including a specific list and/or conditions:

Tires, Appliances (Remove Freon and Recycle Scrap Iron), Yard Waste (Compost Program), Asbestos,  
 Non-Biohazard Medical Waste, Pit Sludges and Grit, Recycle Scrap Metals, Wastewater and Water  
 Treatment Sludges

Site Size:Total area of facility property: 330 acresTotal area sited for use: 265 acresTotal area permitted: 265 acresOperating: 20.5 acresNot excavated: 49.0 acresCurrent capacity: 8.5 million compacted yds<sup>3</sup>Estimated lifetime: 50 yearsEstimated days open per year: 276 daysEstimated yearly disposal volume: 125.925 compacted yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects: N/A megawattsWaste-to-energy incinerators: N/A megawatts

## CURRENT

### COORDINATION EFFORTS:

Solid Waste Management Plans need to be developed and implemented with due regard for both local conditions and the state and federal regulatory framework for protecting public health and the quality of the air, water, and land. The following states the ways in which coordination will be achieved to minimize potential conflicts with other programs and, if possible, to enhance those programs.

It may be necessary to enter into various types of agreements between public and private sectors to be able to implement the various components of this solid waste management system. The known existing arrangements are described below which are considered necessary to successfully implement this system within the County. In addition, proposed arrangements are recommended which address any discrepancies that the existing arrangements may have created or overlooked. Since arrangements may exist between two or more private parties that are not public knowledge, this section may not be comprehensive of all the arrangements within the County. Additionally, it may be necessary to cancel or enter into new or revised arrangements as conditions change during the planning period. The entities responsible for developing, approving, and enforcing these arrangements are also noted.

The City of Midland will continue to negotiate contractual agreements with the townships of Midland County for the use of the City of Midland Landfill. Additionally, the City of Midland Landfill will continue to work closely with the Department of Environmental Quality to maintain regulatory compliance and pursue future environmentally conscience endeavors.

As stated earlier, Midland County shall utilize import/export authorizations in emergency situations only. Emergency situations are only those instances in which, a counties landfills are closed or cannot handle increased landfill volumes due to regulatory closure, natural disasters such as floods, tornadoes, fires, and other acts of God.

To use these facilities on an emergency, short-term basis, Midland County will sign letters of agreement with those counties calling for reciprocal agreements. These agreements would specify that Midland County will be able to use licensed landfills in Bay, Saginaw, Shiawassee, or Clare county on an interim basis in the event of a temporary or permanent closure of the City of Midland Landfill and that those same counties would be able to use the City of Midland landfill on a temporary basis if the same conditions occurred in their jurisdiction. Such agreements would require the approval and concurrence of the City of Midland and consequently a resolution or letter of agreement between the city and county would be established. Similar agreements would be required with the owners of the landfills that are located in these surrounding counties. At the same time, the county would require all private haulers operating within the county to abide by these inter-county agreements for the transfer of wastes to the designated landfill. Such agreements could be put together in the form of a contract or a formal letter of agreement.<sup>3</sup>

This contingency plan is to remain in effect until the capacities of the designated landfills in any of the participating counties reach a point that precludes the importation of out-of-county wastes. Midland County would limit the deposition of out-of-county wastes in Midland County to a maximum contiguous period of nine months. In addition, Midland County would accept only those wastes, which must be limited to those classified as Type II wastes, that are generated within the importing county.<sup>3</sup>

Additionally, for those counties not having facilities available or willing to take special wastes such as asbestos and contaminated soils, the waste hauler shall petition, in writing, the City of Midland City Manager for acceptance to dispose of such waste at the City of Midland Landfill. Quantities, type of waste, test results, and proper contaminated procedures must be listed on the petition. The City Manager will determine and have final approval if such waste can be disposed of at the City of Midland Landfill. All out-county waste will be charged per an out-county fee schedule maintained by the City of Midland Council. All special waste shall be documented and filed with the Saginaw Bay District of the Department of Environmental Quality.

Special Conditions

Special conditions affecting import or export of solid waste.

The City of Midland will continue to negotiate contractual agreements with the townships of Midland County for the use of the City of Midland Landfill. Additionally, the City of Midland Landfill will continue to work closely with the Department of Environmental Quality to maintain regulatory compliance and pursue future environmentally conscience endeavors.

As stated earlier, Midland County shall utilize import/export authorizations in emergency situations only.

To use these facilities on an emergency, short-term basis such as floods, tornados, fire, and other natural disasters or in the event that a landfill is temporarily or permanently closed due to regulatory issues, Midland County will sign letters of agreement with those counties calling for reciprocal agreements. These agreements would specify that Midland County will be able to use licensed landfills in Bay, Saginaw, Shiawassee, or Clare county on an interim basis in the event of a temporary or permanent closure of the City of Midland Landfill or an increase of flows above and beyond capacity due to a natural disaster, and that those same counties would be able to use the City of Midland landfill on a temporary basis if the same conditions occurred in their jurisdiction. Such agreements would require the approval and concurrence of the City of Midland and consequently a resolution or letter of agreement between the city and county would be established. Similar agreements would be required with the owners of the landfills that are located in these surrounding counties. At the same time, the county would require all private haulers operating within the county to abide by these inter-county agreements for the transfer of wastes to the designated landfill. Such agreements could be put together in the form of a contract or a formal letter of agreement.<sup>3</sup>

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#### Information Sources

1. Midland County Road Commission, Telephone Interview, 7/27/99 - 3:00 pm. - Depac Gupta
2. City of Midland Engineering Department, E-mail message, 7/29/1999 - 10:10 am. - Dave Foote.
3. Midland County Solid Waste Management Plan - 1988.